

## WHAT IS CLAIMED IS:

- 1                   1.       A method for determining the presence or absence of a colorectal  
2 cancer cell in a patient, the method comprising determining the level of a target nucleic acid  
3 that encodes SEQ ID NO: 2 in a biological sample from the patient, thereby determining the  
4 presence or absence of the colorectal cancer cell in the patient.
- 1                   2.       The method of claim 1, wherein the target nucleic acid comprises a  
2 sequence at least 80% identical to SEQ ID NO: 1.
- 1                   3.       The method of claim 1, wherein the biological sample comprises  
2 isolated nucleic acids.
- 1                   4.       The method of claim 3, further comprising the step of amplifying  
2 nucleic acids before the step of determining the level of the nucleic acid.
- 1                   5.       The method of claim 3, wherein the isolated nucleic acids are mRNA.
- 1                   6.       The method of claim 1, wherein the biological sample is colorectal  
2 tissue and the step of determining the level of target nucleic acid is carried out using *in situ*  
3 hybridization.
- 1                   7.       The method of claim 1, wherein the step of determining the level of  
2 target nucleic acid is carried out using a labeled nucleic acid probe that selectively hybridizes  
3 to SEQ ID NO: 1 under stringent hybridization conditions.
- 1                   8.       The method of claim 1, wherein the step of determining the level of  
2 target nucleic acid is carried out using a nucleic acid probe immobilized to a solid support,  
3 wherein the probe selectively hybridizes to SEQ ID NO: 1 under stringent hybridization  
4 conditions.
- 1                   9.       The method of claim 1, wherein the step of determining the level of  
2 target nucleic acid is carried out using Northern blot analysis.
- 1                   10.      The method of claim 1, wherein the step of determining the level of the  
2 target nucleic acid is carried out by comparing the amount of the target nucleic acid in the  
3 biological sample to the amount of the target nucleic acid in a reference sample.

- 1                    11.    The method of claim 10, wherein the reference sample is from normal  
2 colorectal tissue.
- 1                    12.    The method of claim 1, wherein the patient is undergoing a therapeutic  
2 regimen to treat colorectal cancer.
- 1                    13.    The method of claim 1, wherein the patient is suspected of having  
2 colorectal cancer.
- 1                    14.    An isolated expression vector comprising a nucleic acid sequence that  
2 encodes SEQ ID NO: 2.
- 1                    15.    The isolated expression vector of claim 14, wherein the nucleic acid  
2 sequence is at least 80% identical to SEQ ID NO: 1.
- 1                    16.    A host cell comprising the expression vector of claim 14.
- 1                    17.    A method for determining the presence or absence of a colorectal  
2 cancer cell in a patient, the method comprising determining the level of a target protein  
3 comprising a sequence as shown in SEQ ID NO: 2 in a biological sample from the patient,  
4 thereby determining the presence or absence of the colorectal cancer cell in the patient.
- 1                    18.    The method of claim 17, wherein the step of determining the level of  
2 the target protein is carried out using an antibody.
- 1                    19.    The method of claim 18, wherein the antibody is a monoclonal  
2 antibody.
- 1                    20.    The method of claim 18, wherein the antibody is a polyclonal  
2 antibody.
- 1                    21.    The method of claim 18, wherein the antibody is labeled.
- 1                    22    The method of claim 21, wherein the label is fluorescent.

1                   23.     The method of claim 17, wherein the step of determining the level of  
2     the target protein is carried out by comparing the amount of the target protein in the  
3     biological sample to the amount of the target protein in a reference sample.

1                   24.     The method of claim 23, wherein the reference sample is from normal  
2     colorectal tissue.

1                   25.     The method of claim 17, wherein the patient is undergoing a  
2     therapeutic regimen to treat colorectal cancer.

1                   26.     The method of claim 17, wherein the patient is suspected of having  
2     colorectal cancer.

1                   27.     A method for treating a cancer that overexpresses a 26#77 gene  
2     product comprising administering to a subject in need of such treatment a therapeutically  
3     effective amount of an inhibitor of 26#77 gene product.

1                   28.     The method of claim 27, wherein the inhibitor of a 26#77 gene product  
2     is selected from the group consisting of an antisense RNA molecule, and an inhibitory RNA  
3     molecule.

1                   29.     A method for determining the presence or absence of a colorectal  
2     cancer cell in a patient, the method comprising determining the level of a target nucleic acid  
3     that encodes SEQ ID NO:4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, or 28 in a biological  
4     sample from the patient, thereby determining the presence or absence of the colorectal cancer  
5     cell in the patient.

1                   30.     A method for determining the presence or absence of a colorectal  
2     cancer cell in a patient, the method comprising determining the level of a target protein  
3     comprising a sequence as shown in SEQ ID NO:4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, or  
4     28 in a biological sample from the patient, thereby determining the presence or absence of the  
5     colorectal cancer cell in the patient.

1                   31.     A method for treating a cancer that overexpresses a Copine 1 (CPNE  
2     1) protein, the Integrin B4 binding protein (ITGB4BP), RNA Export homolog (RAE1), bone

3 morphogenic protein 7 (BMP7), G protein, alpha stimulating activity polypeptide 1 (GNAS),  
4 eukaryotic translation initiation factor 2, subunit 2 beta (EIF2S2), dynein light chain A2  
5 (DNCL2A), proteosome subunit  $\alpha$ -7 (PSMA7), activity dependent neuroprotector (ADNP),  
6 C20orf129, C20orf52, C20orf20, or C20orf188 gene product comprising administering to a  
7 subject in need of such treatment a therapeutically effective amount of an inhibitor of CPNE  
8 1, ITGB4BP, RAE1, BMP7, GNAS, EIF2S2, DNCL2A, PSMA7, ADNP, C20orf129,  
9 C20orf52, C20orf20, or C20orf188 gene product.